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A NEW LEAF-SPOT DISEASE OF POLYGONUM PERSICARIA

P. J. O'GARA

(WITH PLATE 10)

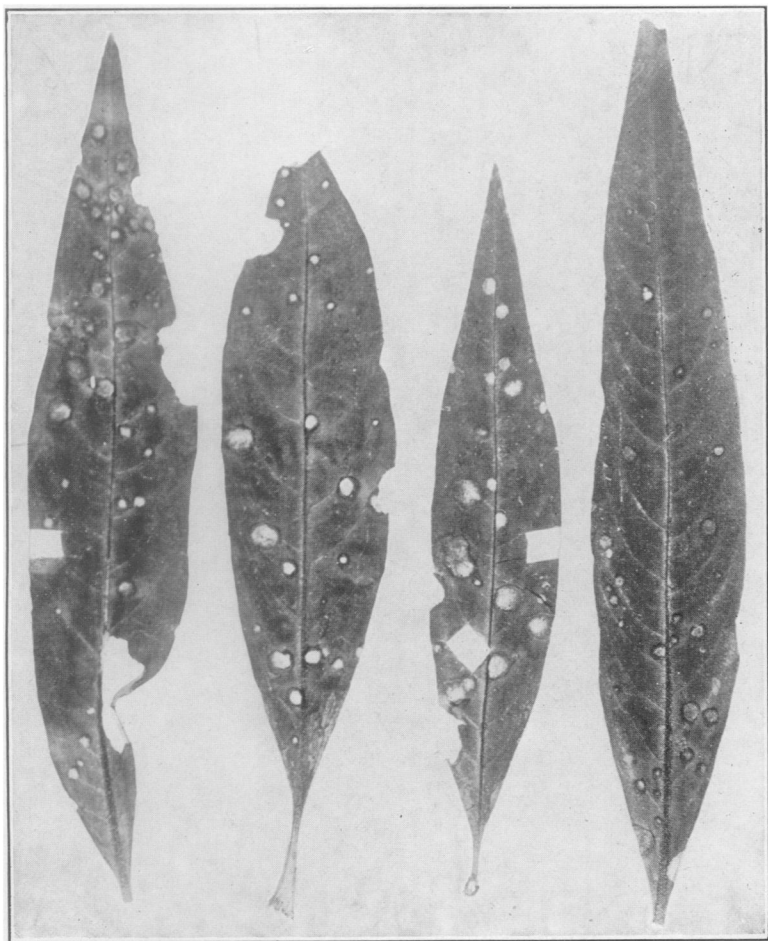
In July of 1914 and August of 1916, Mr. W. W. Jones, botanist in the department of agricultural investigations, American Smelting & Refining Company, made collections of *Polygonum persicaria* L. showing an apparently new leaf-spot. An examination of the literature indicates that this leaf-spot disease has not been previously noted and that the organism is an undescribed species of *Septoria* quite different from the species of *Septoria* described as occurring upon *Polygonum* or related genera. From field observations it would seem that this type of leaf-spot is rather rare, only two small collections having been made as noted above. The description of the species is as follows:

***Septoria persicariae* sp. nov.**

Maculis amphigenis subcircularibus, 1-8 mm. diam., sparsis v. saepe confluentibus, rubiginoso-brunneis dein centro griseo-brunneis v. griseis, anguste purpureo v. violaceo-limbatis; *pycnidiis* amphigenis, parvis v. numerosis, sparsis v. aggregatis, immersis, membranaceis, brunneis v. atro-brunneis, globosis 50-120 μ diam., osteolo depressis v. parvulo pertusis; *sporulis* hyalinis filiformibus utrinque obtusis v. attenuatis v. saepe uno apice latoribus altero gradatim attenuatis (sub-clavulatis), rectis, curvis v. saepe flexuosis, continuis v. indistincte pluriseptatis, saepe minute guttulatis, 17-60 \times 1-3 μ , cirrose expulsis; basidiis non vivis.

Hab. in foliis vivis *Polygoni persicariae*, Salt Lake Valley, Utah, Amer. Bor. (Wyatt W. Jones).

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Photograph of type specimens of leaves of *Polygonum persicaria* L. infected with *Septoria persicariae* O'Gara. From the collection of Wyatt W. Jones, Salt Lake Valley, Utah, August 23, 1916